

Dynamic Memory Allocation And Sharing In Electronic Systems

ABSTRACT

A method and system for dynamic memory allocation and sharing in electronic
5 systems. Embodiments include multi-channel signal processing, including continuously
receiving multiple channels, wherein each channel comprises a discrete signal, and
processing the multiple channels in a signal processing component on a time-multiplexed
basis. Processing the multiple channels includes configuring the signal processing
component for one of a plurality of operational modes, including allocating a memory
10 into areas for storage of types of data, wherein certain areas are accessed by certain signal
processing subsystems in certain manners. Configuring includes configuring the signal
processing component to operate in different modes concurrently for different channels.